

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/541,998
Source: 1FwP
Date Processed by STIC: 8/3/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/541,998

DATE: 08/03/2006

TIME: 09:50:26

Input Set : A:\19020.seq.txt
 Output Set: N:\CRF4\08032006\J541998.raw

3 <110> APPLICANT: Collier, Greg
 4 Walder, Ken
 5 Segal, David
 6 Foletta, Victoria
 8 <120> TITLE OF INVENTION: OBESITY-RELATED GENES
 10 <130> FILE REFERENCE: 19020
 12 <140> CURRENT APPLICATION NUMBER: 10/541,998
 13 <141> CURRENT FILING DATE: 2005-07-13
 15 <160> NUMBER OF SEQ ID NOS: 13
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 426
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Psammomys obesus
 24 <220> FEATURE:
 25 <221> NAME/KEY: misc_feature
 26 <222> LOCATION: (336) .. (366) (336)
 27 <223> OTHER INFORMATION: 'n' = any nucleotide sequence
 30 <400> SEQUENCE: 1

31 ggacatcttt tcagccatga ggagcttct gaaaaactcgg agttgataca gaaatataagg 60
 33 aatataatca cgcaggctcc taacctggag aacattgagc tttactggaa cagctacaac 120
 35 aaccggccgag acctgaacctt cgagcgaggt ggtgagatga ccctcaagtg ccctgtatg 180
 37 ctgggtggtag gagaccaagc gcctcatgag gatgccgtgg tggagtgtaa cttaaaaactg 240
 39 gaccacac agacctcggtt cctcaagatg gctgattctg gaggtcagcc acagctgacc 300
 41 cagccaggca agctgactga ggcttcaag tacttntctgc aaggcatggg ctacatggcc 360
 43 tcctctgca tgactcgccat atcgaggtct cgacacggcat ctttgaccag cgacacatcc 420
 45 attgat 426

48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 451
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Psammomys obesus
 53 <400> SEQUENCE: 2

54 gctggtaccg gtccggaaatt cccgggatataat cgtcgacccca cgcgtccgggt ggtggagaag 60
 56 atcgcttcgtt cctgtggttca cattgaactg tatcgaaac ttcccttctc gaagaggggg 120
 58 gtgccagtgg cgagtgggttc cggatttatac gtgtctgagg atggactgtat tttgtaccaat 180
 60 gctcacgtgg tgaccaacaa aaacagggttc aagggttggc tgaagaatgg agcaacactat 240
 62 gaagctaaaaa tcaaggatgt ggttggaaaag gcagacatcg cacttatcaa aattgaccac 300
 64 caggggaaagc tgccagtctt gctgctgggc cgctcctcag agcttcgacc agggagatgg 360
 66 gtggtegcca tcggaaagccc cttttccctt caaaacacag tcaccactgg gatcgctagt 420
 68 accacccacgc gaggcgccaa agagctgggg c 451

71 <210> SEQ ID NO: 3
 72 <211> LENGTH: 478
 73 <212> TYPE: DNA

See pg 1-9

Does Not Comply
 Corrected Diskette Needed

FYI: 'n' can only represent a single nucleotide.
 If "sequence" denotes more than one nucleotide, it is an invalid designation.
 If you mean 'n' = any nucleotide, that is valid.

(please check all sequences showing 'n's)

RAW SEQUENCE LISTING

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Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

74 <213> ORGANISM: Psammomys obesus

77 <400> SEQUENCE: 3

78	tgacatTTTC	tttccacCTC	ttatgatAGC	tgatataAC	taaATCTTA	tacAGAAATG	60
80	tcagTACTTG	aacaAAATTC	aaACACATTG	gttATTAAAC	tttggCTCA	tgcatGGTT	120
82	attAGGTTCA	aATTATACCT	gattCATCTA	tATTTACTT	taAAATGTG	ggTTTCCCTCA	180
84	ttttAAAGT	aaaACTAAAC	agtGCTTTG	gaATTCTAA	gCTACTAATT	gttgATAGAT	240
86	acaggCCTGTG	tCTAGTAAA	tagTTTGTG	ggTGTGGGT	ctatCTTCC	atgAAAAAGT	300
88	gggAGGtGTA	agttagTTTG	gttagGCT	aATAGTTAA	tttATATAAA	ataAGAATGA	360
90	gcatttGgTA	tCTGTATGAA	aggGCCTAA	atcaAAATGA	ttATCCATAA	tcaATCTTA	420
92	ttCTGTtTT	ataaaaACCA	aaggGCACTC	attggTTAAG	tgtGCTGAGA	tagAAAAG	478

95 <210> SEQ ID NO: 4

96 <211> LENGTH: 1884

97 <212> TYPE: DNA

98 <213> ORGANISM: Psammomys obesus

100 <220> FEATURE:

101 <221> NAME/KEY: misc_feature

102 <222> LOCATION: (609)..(609)

103 <223> OTHER INFORMATION: n = any nucleotide sequence

106 <220> FEATURE:

107 <221> NAME/KEY: misc_feature

108 <222> LOCATION: (611)..(611)

109 <223> OTHER INFORMATION: n = any nucleotide sequence

113 <220> FEATURE:

114 <221> NAME/KEY: misc_feature

115 <222> LOCATION: (1388)..(1388)

116 <223> OTHER INFORMATION: n = any nucleotide sequence

119 <220> FEATURE:

120 <221> NAME/KEY: misc_feature

121 <222> LOCATION: (1390)..(1390)

122 <223> OTHER INFORMATION: n = any nucleotide sequence

125 <220> FEATURE:

126 <221> NAME/KEY: misc_feature

127 <222> LOCATION: (1413)..(1413)

128 <223> OTHER INFORMATION: n = any nucleotide sequence

131 <220> FEATURE:

132 <221> NAME/KEY: misc_feature

133 <222> LOCATION: (1512)..(1512)

134 <223> OTHER INFORMATION: n = any nucleotide sequence

137 <220> FEATURE:

138 <221> NAME/KEY: misc_feature

139 <222> LOCATION: (1568)..(1568)

140 <223> OTHER INFORMATION: n = any nucleotide sequence

143 <400> SEQUENCE: 4

144	cgcagataCT	gcagAGCTG	cgCATTCTT	gcCTGGCATC	tcAGCTTGCT	aggTGTCTCA	60
146	tCTTCGTCT	gcgcTCGTG	cCTCCTCCAA	ggCCTCCAGT	ctCCCTTAAG	aaaACTCAAG	120
148	acTGGGAAG	ctACGATGCG	AGCTTGATGC	cgCTACCCCTA	gcAGGCTATG	gACTTCCTGA	180
150	gggtCCTCGG	ACTGTTGACA	cccATTCCGA	tccGCTACCT	tCCAAAGCTGA	taAGCCCGGG	240
152	accTCTAGGGC	ggggTGCCTCA	gACTCATGTG	tgACGCTTGT	cAGTGAACCC	CCATTECCCAG	300
154	tgtGGTTGCT	tCTTGTCTGG	gCTTGGCCC	ATTTGATAcc	ACGAAGGATG	ACGATGCTAG	360

RAW SEQUENCE LISTING
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Input Set : A:\19020.seq.txt
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156	ttatgcagca	gccaacacac	ctcccccaa	ctctccgctg	tcactggtgg	gccccactgt	420
158	ccaggaagca	ggtgtccgga	actgacatct	tggagcagag	gggcatgag	aggtgtgtgt	480
160	atcctgccag	aaagcagctg	gaccacgacg	ctcccaagat	gaaccactg	tatacagagg	540
162	catcatggga	gttggatgt	caggagcatt	ctagacccac	gtgtacttga	gcgtggaaag	600
W--> 164	acagaagana	ngcgcagaga	ctggggact	tgatctgctc	accatgatcg	cctgcacggg	660
166	tctcatccag	ttcctgcctt	aggctacagt	ggcgggtgtcc	acgggcttgc	cattcaacgt	720
168	gctctcagac	ccagatcggg	ctcaccactg	aggagaacct	ttcactttt	gtgggtatgc	780
170	agagggaaagg	gtctcgactc	cagagacctg	gagtccaaag	tttgggggg	tttatttacc	840
172	agtaatttat	ttatttttt	tattattagt	tatgatcga	aagtttaata	ccattcaagc	900
174	tactgtgtc	tgtctgctt	gagcacagc	atgcaatgt	gcaccaaggc	atccttgtcc	960
176	tcacagttt	acactgtggg	aacaggcatc	cttggcttta	cagattagcg	cgagggaaac	1020
178	cagaaatatt	aaacacgcag	ggttgtctc	ccaaaggggag	aggcacatac	cctgtttcc	1080
180	tcccgaaaggc	tgggagcggg	gggtgttgat	atcctggcta	cctctgtgca	atctgttaggc	1140
182	catgcctta	agatgttagct	gtcagtcgg	agtggagcgg	gagccgttag	tcaatgttgc	1200
184	gggggtgtgg	catgcctt	taactccatt	taattccaggc	actctagtgg	tttgggtacag	1260
186	cagcgcgc	agcgggttgc	gtgggggggg	gaagtcctga	agaccagctt	tcatcccagc	1320
188	actcaggcg	caaaggcggg	tggattctct	gagttcgagg	ccggcctggg	ctacagatgt	1380
190	agtccagnnc	agccagggtt	acaacagaga	aancctctt	attggaaaat	aaataaaatta	1440
192	aaaaaaaaaa	aagggtgtcat	gtgtcctgtt	tactttacaa	agaatgttga	tgcttaagct	1500
194	tttttgc	cncaagaaaa	ttgtttaact	gggtgtcagac	tcctgaagtt	tgaaccagca	1560
196	cttagccnng	cgtgggtggcg	cacgcctgta	atcccagccc	tcggggaggca	gaggcagggtg	1620
198	gatctcttag	ttagaggcca	gcctggctta	cagagttagt	ccaggacagc	caggattaca	1680
200	cagagaaacc	ccgtctcaa	aatgtaaaat	aaattaaaat	aaagtttga	ccaacagtgt	1740
202	ttactgtgtc	gtgttgc	agattacctt	tttgcttctc	tttgatcatt	attctactgt	1800
204	gggtgtcagca	gagacccctc	cagcagggtgg	ccaaacgttag	agtctcaagc	ccgagaaggt	1860
206	aagaatttaa	aaaaaaaaaa	aaaa				1884
209	<210>	SEQ ID NO:	5				
210	<211>	LENGTH:	1358				
211	<212>	TYPE:	DNA				
212	<213>	ORGANISM:	Psammomys obesus				
214	<220>	FEATURE:					
215	<221>	NAME/KEY:	misc_feature				
216	<222>	LOCATION:	(385)..(385)				
217	<223>	OTHER INFORMATION:	n = any nucleotide	sequence			
220	<220>	FEATURE:					
221	<221>	NAME/KEY:	misc_feature				
222	<222>	LOCATION:	(416)..(416)				
223	<223>	OTHER INFORMATION:	n = any nucleotide	sequence			
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228	<221>	NAME/KEY:	misc_feature				
229	<222>	LOCATION:	(430)..(430)				
230	<223>	OTHER INFORMATION:	n = any nucleotide	sequence			
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234	<221>	NAME/KEY:	misc_feature				
235	<222>	LOCATION:	(507)..(507)				
236	<223>	OTHER INFORMATION:	n = any nucleotide	sequence			
239	<220>	FEATURE:					
240	<221>	NAME/KEY:	misc_feature				
241	<222>	LOCATION:	(754)..(754)				

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/541,998

DATE: 08/03/2006

TIME: 09:50:26

Input Set : A:\19020.seq.txt.
 Output Set: N:\CRF4\08032006\J541998.raw

242 <223> OTHER INFORMATION: n = any nucleotide sequence
 245 <220> FEATURE:
 246 <221> NAME/KEY: misc_feature
 247 <222> LOCATION: (856)..(856)
 248 <223> OTHER INFORMATION: n = any nucleotide sequence
 251 <220> FEATURE:
 252 <221> NAME/KEY: misc_feature
 253 <222> LOCATION: (928)..(928)
 254 <223> OTHER INFORMATION: n = any nucleotide sequence
 257 <220> FEATURE:
 258 <221> NAME/KEY: misc_feature
 259 <222> LOCATION: (980)..(980)
 260 <223> OTHER INFORMATION: n = any nucleotide sequence
 264 <220> FEATURE:
 265 <221> NAME/KEY: misc_feature
 266 <222> LOCATION: (1165)..(1165)
 267 <223> OTHER INFORMATION: n = any nucleotide sequence
 270 <220> FEATURE:
 271 <221> NAME/KEY: misc_feature
 272 <222> LOCATION: (1200)..(1200)
 273 <223> OTHER INFORMATION: n = any nucleotide sequence
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 277 <221> NAME/KEY: misc_feature
 278 <222> LOCATION: (1273)..(1273)
 279 <223> OTHER INFORMATION: n = any nucleotide sequence
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 283 <221> NAME/KEY: misc_feature
 284 <222> LOCATION: (1284)..(1284)
 285 <223> OTHER INFORMATION: n = any nucleotide sequence
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 289 <221> NAME/KEY: misc_feature
 290 <222> LOCATION: (1303)..(1303)
 291 <223> OTHER INFORMATION: n = any nucleotide sequence
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 295 <221> NAME/KEY: misc_feature
 296 <222> LOCATION: (1305)..(1305)
 297 <223> OTHER INFORMATION: n = any nucleotide sequence
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 302 <221> NAME/KEY: misc_feature
 303 <222> LOCATION: (1326)..(1326)
 304 <223> OTHER INFORMATION: n = any nucleotide sequence
 307 <220> FEATURE:
 308 <221> NAME/KEY: misc_feature
 309 <222> LOCATION: (1330)..(1330)
 310 <223> OTHER INFORMATION: n = any nucleotide sequence
 313 <400> SEQUENCE: 5
 314 gttggaaag aatgaagaaa caacccgatg aatagaaatg aaaaggctaa gccaaatgg 60
 316 tttctgttga gatgttggat gaaaacaagt atccactgtt tccaacttg acgaaaaatc 120
 318 tcaactgagg tttggctgtt aaaaaaaaaa attcactgtg gcctctgtgc ttaattgtcg 180

RAW SEQUENCE LISTING

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Input Set : A:\19020.seq.txt
 Output Set: N:\CRF4\08032006\J541998.raw

320 taaaccattg tgactgttac tgctcaaagt atcgtactgt tcattagtaa ctacatcaga	240
322 attgcaccgc tgctgttggaa aagccaata aagaaacccc cagactgctg ctcagcaaat	300
324 gttaataaaag tgtgcgcacc gtaggcctgt ccacccagtc accaagcagc gtcctttgt	360
W--> 326 ctgcgagtgg ctgtgggtgt gattnaccac ctcagagggtg cacagcacct gcttngccc	420
328 ttaagtgtgn gtcagaagac aagcagctc tcggtaacca acaacctgct ttcggagct	480
330 cagtgtttag gctgtttact gaatcanata tgtaacttag cacacataag cgaagagaga	540
332 tttggctgc actggcaaga gtgaaccaa tttacttcta tttttaaag gcagatcata	600
334 ttaaggcata taagtaattt atggatataa attgttgat atttattttt gctgaaat	660
336 ttgttttaa attattacat gtgtctcta tgcgtttatc tctgaaataa cgatgcccatt	720
338 aaccacatgg ccatgttt tgaagttgg gtgnaacaga ggaaaagtca tccttcttg	780
340 ttcttgactc ccttcctca actacatgtat aagtctatca ataaagcatt tgacccatc	840
342 agggcagaa gcctgnaaag ttagaaaact cattgaccac agtagacaat tgatttctta	900
344 gaaataagaa gtgagaagca gctgtgnnc tgagcagggg atgtaaacca agtccagatg	960
346 caccacgtg aagaggctt tagaaaaat atgtttgcct ctcacccctg cacatgttct	1020
348 agatgtttaa aaacagccac atggccccgc tgcgaggacc tcgtaatgtt ttgttgg	1080
350 ttgttgggtg taaaggaggat ctcacaagcg tacaagtgcg gcactgaaag tggctgaggc	1140
352 ccacagtctt cagcacccaa gtctntcccg cagcacgcca agctgggtt gtccgggtgn	1200
354 gtatgtctgt gtcagtgtcc aagctgggtt ttggcccgt tttatattat gtgccccaa	1260
356 tttttttttt canagctgac ccangctgga cacacttctt ttngncttcg agtttactgg	1320
358 ttgatncagn taaaataaa ttaattaattt aaagactt	1358

361 <210> SEQ ID NO: 6

362 <211> LENGTH: 390

363 <212> TYPE: DNA

364 <213> ORGANISM: Psammomys obesus

366 <220> FEATURE:

367 <221> NAME/KEY: misc_feature

368 <222> LOCATION: (3)..(3)

369 <223> OTHER INFORMATION: n = any nucleotide sequence

372 <220> FEATURE:

373 <221> NAME/KEY: misc_feature

374 <222> LOCATION: (9)..(9)

375 <223> OTHER INFORMATION: n = any nucleotide sequence

378 <220> FEATURE:

379 <221> NAME/KEY: misc_feature

380 <222> LOCATION: (60)..(60)

381 <223> OTHER INFORMATION: n = any nucleotide sequence

384 <220> FEATURE:

385 <221> NAME/KEY: misc_feature

386 <222> LOCATION: (71)..(71)

387 <223> OTHER INFORMATION: n = any nucleotide sequence

390 <220> FEATURE:

391 <221> NAME/KEY: misc_feature

392 <222> LOCATION: (91)..(91)

393 <223> OTHER INFORMATION: n = any nucleotide sequence

396 <220> FEATURE:

397 <221> NAME/KEY: misc_feature

398 <222> LOCATION: (113)..(113)

399 <223> OTHER INFORMATION: n = any nucleotide sequence

402 <220> FEATURE:

<220>
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 <222> (388)..(388)
 <223> n = any nucleotide sequence

'C' is at 388

<220>
 <221> misc_feature
 <222> (524)..(524)
 <223> n = any nucleotide sequence

there are only 390
nucleotides in this
sequence

<220>
 <221> misc_feature
 <222> (527)..(527)
 <223> n = any nucleotide sequence

<400> 6	
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aagaccacct gcagctgcag cctggcggtc cagctgtcta agggacgtga gagtgttcta	180
atcatttcca cagacccagc tcacaacatc tcagatgtat ttgaccagaa gttctccaag	240
gtgcctacca aggtcaaagg ctatgacaac ctctttgcta tggagataga cccgagcctg	300
ggcgtggcag agctccctga tgaagttttt cgaggaagac aacatgctga gcatggcaa	360
gaagatgtatc caggaggcca tgagcgcatt	390

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 336
Seq#:4; N Pos. 609,611,1388,1390,1413,1512,1568
Seq#:5; N Pos. 385,416,430,507,754,856,928,980,1165,1200,1273,1284,1303
Seq#:5; N Pos. 1305,1326,1330
Seq#:6; N Pos. 3,9
Seq#:7; N Pos. 524,527
Seq#:8; N Pos. 60
Seq#:9; N Pos. 71,91,113,388

VERIFICATION SUMMARY

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Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600
M:341 Repeated in SeqNo=4
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360
M:341 Repeated in SeqNo=5
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60
M:341 Repeated in SeqNo=9